
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=8; day=14; hr=10; min=53; sec=45; ms=828;]

Reviewer Comments:

<210> 1

<211> 654

<212> DNA

<213> Escherichia coli K12

Please adjust the above <213> response to "Escherichia coli" only, and move the explanatory information to the <220>-<223> section. Per 1.823 of the Sequence Rules, the only valid <213> responses are: the Genus species of the organism, "Artificial Sequence," or "Unknown."

"Artificial Sequence" and "Unknown" require explanation in the <220>-<223> section: please give the source of the genetic material. The above type of response appears in subsequent sequences, too: please adjust them.

<210> 4

<211> 256

<212> PRT

<213> Escherichia coli K12 nfnB in pET-28(a)(+); pMKS2

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misc_feature
<221>
<222>
      (250)..(267)
<223>
      Cys tags
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      misc_feature
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       (160)..(177)
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      His tags
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      (268)..(285)
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       primer
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      (996)..(1010)
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      primer
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                                 25
                                                      30
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Gly Ser Cys Cys Cys Cys Cys Asp Ile Ile Ser Val Ala Leu Lys 35 40 45

Arg	His 50	Ser	Thr	Lys	Ala	Phe 55	Asp	Ala	Ser	Lys	Lys 60	Leu	Thr	Pro	Glu
Gln 65	Ala	Glu	Gln	Ile	Lys 70	Thr	Leu	Leu	Gln	Tyr 75	Ser	Pro	Ser	Ser	Thr 80
Asn	Ser	Gln	Pro	Trp 85	His	Phe	Ile	Val	Ala 90	Ser	Thr	Glu	Glu	Gly 95	Lys
Ala	Arg	Val	Ala 100	Lys	Ser	Ala	Ala	Gly 105	Asn	Tyr	Val	Phe	Asn 110	Glu	Arg
Lys	Met	Leu 115	Asp	Ala	Ser	His	Val	Val	Val	Phe	Cys	Ala 125	Lys	Thr	Ala
Met	Asp 130	Asp	Val	Trp	Leu	Lys 135	Leu	Val	Val	Asp	Gln 140	Glu	Asp	Ala	Asp
Gly 145	Arg	Phe	Ala	Thr	Pro 150	Glu	Ala	Lys	Ala	Ala 155	Asn	Asp	Lys	Gly	Arg 160
Lys	Phe	Phe	Ala	Asp 165	Met	His	Arg	Lys	Asp 170	Leu	His	Asp	Asp	Ala 175	Glu
Trp	Met	Ala	Lys 180	Gln	Val	Tyr	Leu	Asn 185	Val	Gly	Asn	Phe	Leu 190	Leu	Gly
Val	Ala	Ala 195	Leu	Gly	Leu	Asp	Ala 200	Val	Pro	Ile	Glu	Gly 205	Phe	Asp	Ala

Ala Ile Leu Asp Ala Glu Phe Gly Leu Lys Glu Lys Gly Tyr Thr Ser 210 215 220

Leu Val Val Pro Val Gly His His Ser Val Glu Asp Phe Asn Ala 225 230 235 240

Thr Leu Pro Lys Ser Arg Leu Pro Gln Asn Ile Thr Leu Thr Glu Val 245 250 255

Please remove the <220>-<223> sections (as shown below) because Sequence 4 only has 256 amino acids:

<220>

<221> misc_feature

<222> (250)..(267)

<223> Cys tags

<220>

<221> misc_feature

<222> (268)..(285)

<223> primer

<220>

<221> misc_feature

<222> (996)..(1010)

<223> primer

Same type of error in Sequence 6.

(end of Sequence 9)
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42

1/11

Please remove the above "1/11" which appears at the end of the submitted file.

Validated By CRFValidator v 1.0.3

Application No: 10582557 Version No: 1.0

Input Set:

Output Set:

Started: 2008-08-14 09:58:35.104 **Finished:** 2008-08-14 09:58:36.041

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 937 ms

Total Warnings: 7

Total Errors: 1

No. of SeqIDs Defined: 9

Actual SeqID Count: 9

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W 40	2	Undefined	organism	found	in	<213>	in	SEQ	ID	(3)	
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W 40	2	Undefined	organism	found	in	<213>	in	SEQ	ID	(5)	
E 20	1	Mandatory	field dat	a miss	sing	g in <22	23>	in	SEQ	ID	(5)
W 40	2	Undefined	organism	found	in	<213>	in	SEQ	ID	(6)	
W 21	3	Artificial	L or Unkno	own foi	ınd	in <213	3>	in S	SEO	ID (9)

SEQUENCE LISTING

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	Trwyn Ltd				
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	2008-08-14				
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<213> Escherichia coli K12 nfnB in pET-28(a)(+); pMKS2

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<222> (88)..(858)

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                             Met Gly Ser Ser His His His His
                                                                    162
cac agc agc ggc ctg gtg ccg cgc ggc agc cat atg gct agc atg act
His Ser Ser Gly Leu Val Pro Arg Gly Ser His Met Ala Ser Met Thr
10
                   15
                                                                    210
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Gly Gln Gln Met Gly Arg Gly Ser Cys Cys Cys Cys Cys Cys Asp
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35

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caa tac ag Gln Tyr Se 75		-					,	354
gcc agc acc Ala Ser Th 90				-		-	<i>y y</i>	102
aat tac gt Asn Tyr Va	_		=	=	_	-	2 2	150
gtg ttc tg Val Phe Cy	=						,	198
gtt gac ca Val Asp Gl: 14	n Glu Asp	Ala Asp						546
gcc gcg aa Ala Ala As 155	_		-	-	-	_		594
gat ctg ca Asp Leu Hi 170				-				542
gtc ggt aa Val Gly As:	_			-			,	590
ccc atc ga		-	-	-			-	738
aaa gag aa Lys Glu Ly 22	s Gly Tyr	Thr Ser		-				786
agc gtt ga Ser Val Gl	-	-		-	-			334
aac atc ac Asn Ile Th 250			taa ttct	ctcttg (ccgggcato	ct gadage	gctat 8	388
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Arg Gly Ser His Met Ala Ser Met Thr Gly Gly Gln Gln Met Gly Arg 20 25 30

Gly Ser Cys Cy	zs Cys Cys	Cys Cys 40	Asp Ile	Ile Ser	Val Ala 45	Leu Lys
Arg His Ser Th	nr Lys Ala	Phe Asp 55	Ala Ser	Lys Lys	Leu Thr	Pro Glu
Gln Ala Glu G 65	in Ile Lys 70	Thr Leu	Leu Gln	Tyr Ser 75	Pro Ser	Ser Thr 80
Asn Ser Gln P	co Trp His 85	Phe Ile	Val Ala 90	Ser Thr	Glu Glu	Gly Lys 95
Ala Arg Val A	_	Ala Ala	Gly Asn 105	Tyr Val	Phe Asn	Glu Arg
Lys Met Leu A: 115	sp Ala Ser	His Val	Val Val	Phe Cys	Ala Lys 125	Thr Ala
Met Asp Asp Va	al Trp Leu	Lys Leu 135	Val Val	Asp Gln 140	Glu Asp	Ala Asp
Gly Arg Phe A	la Thr Pro 150	Glu Ala	Lys Ala	Ala Asn 155	Asp Lys	Gly Arg 160
Lys Phe Phe A	la Asp Met 165	His Arg	Lys Asp 170	Leu His	Asp Asp	Ala Glu 175
Trp Met Ala Ly		Tyr Leu	Asn Val 185	Gly Asn	Phe Leu 190	Leu Gly
Val Ala Ala Le 195	eu Gly Leu	Asp Ala 200	Val Pro	Ile Glu	Gly Phe 205	Asp Ala
Ala Ile Leu A: 210	sp Ala Glu	Phe Gly 215	Leu Lys	Glu Lys 220	Gly Tyr	Thr Ser
Leu Val Val Va 225	al Pro Val 230	Gly His	His Ser	Val Glu 235	Asp Phe	Asn Ala 240
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	_	_		_		_	_		_		_	gct Ala	_	_		162
		_		_		-			_	_	_	tgc Cys	-	-	-	210
		-	-	_			_			-	_	tat Tyr				258
-				-	-	-					-	atg Met 70	_	-		306
_		_	_	-		_	_				-	gag Glu	_	_	-	354
-						-			-	-		tcc Ser	_		-	402
												cgt Arg				450
	-	-	-				-	-		-		cag Gln	-	-	-	498
	_	_				Asp			_		_	cga Arg 150		_	_	546
		_	_	_		_			_			gaa Glu	_			594
-		-	-	_	-	-	_	-	-	_		gcc Ala	-		-	642
		-			_			-				gga Gly	_	_		690
	_	-		_						_		aac Asn	-			738
_	_			_	_	_				_	_	gca Ala 230	_		=	786

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tat gad Tyr Glu 250		_				-		-	-	-		-	-	882
agg ato		_	e Gln		-			_	-		-			930
tcc age Ser Se:	r Gln			_	-				-		_	_		978
aga cad	_		_	_								_	=	1026
tga ga	tagtga	ga tat	cccat	gc ct	tatto	cccg	c cgo	ccct	gaac	cgga	agca	cta		1079
atacct	ggca a	ctttgo	ttg a	gctco	cgtc	g aca	aagct	tgc	ggc	cgca	ctc (gagca	accacc	1139
accacca	acca c	tgagat	ccg g	ctgct	aaca	a aaq	gaaaq	gaaa	ggaa	agcto	gag t	tgg	ctgctg	1199
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  35 40 45
Ala Trp Gln Ala Arg Tyr Gly Glu Pro Ala Asn Leu Pro Ala Ala Asp
             55
                       60
 50
Thr Val Ile Ala Gln Met Leu Gln His Arg Ser Val Arg Ala Tyr Ser
65 70 75 80
Asp Leu Pro Val Asp Glu Gln Met Leu Ser Trp Ala Ile Ala Ala Ala
      Gln Ser Ala Ser Thr Ser Ser Asn Leu Gln Ala Trp Ser Val Leu Ala
     100 105 110
Val Arg Asp Arg Glu Arg Leu Ala Arg Leu Ala Arg Leu Ser Gly Asn
  115 120 125
Gln Arg His Val Glu Gln Ala Pro Leu Phe Leu Val Trp Leu Val Asp
           135
                           140
  130
Trp Ser Arg Leu Arg Arg Leu Ala Arg Thr Leu Gln Ala Pro Thr Ala
145 150 155 160
Gly Ile Asp Tyr Leu Glu Ser Tyr Thr Val Gly Val Val Asp Ala Ala
         165 170 175
Leu Ala Ala Gln Asn Ala Ala Leu Ala Phe Glu Ala Gln Gly Leu Gly
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Ile Val Tyr Ile Gly Gly Met Arg Asn His Pro Glu Ala Met Ser Glu

195 200 205

Glu Leu Gly Leu Pro Asn Asp Thr Phe Ala Val Phe Gly Met Cys Val 210 215 220

Gly His Pro Asp Pro Ala Gln Pro Ala Glu Ile Lys Pro Arg Leu Ala 225 230 235 240

Gln Ser Val Val Leu His Arg Glu Arg Tyr Glu Ala Thr Glu Ala Glu \$245\$ \$250\$ 255

Arg Gln Gln Arg Glu Asn Arg Ser Trp Ser Ser Gln Ala Val Glu Arg 275 280 285

Val Lys Gly Ala Asp Ser Leu Ser Gly Arg His Arg Leu Arg Asp Ala